

SUPPLEMENTARY CEMENTITIOUS MATERIALS

The list of Prequalified supplementary cementitious materials (SCMs) is published and updated periodically for reference primarily by Caltrans field personnel and others involved in Caltrans projects.

As per State of California, Department of Transportation, Standard Specifications (May 2006), Section 90-2.01B, no SCM shall be used in the work unless it is on Caltrans' current pre-qualified products list for the type of SCM involved. SCMs will be considered for addition to the list if the manufacturer of the SCM submits to the Transportation Laboratory, 5900 Folsom Blvd., Sacramento, CA 95819-4612, a sample of the SCM accompanied by certified test results, which verify that the SCM complies with the appropriate AASHTO Designation. The sample shall be sufficient to permit performance of all required tests. Approval of SCMs will be dependent upon a determination as to compliance with the specifications, based on the certified test results submitted, together with any tests the Department may elect to perform.

Inquires regarding this list, are to be directed to Dr. Vijay Jain, (916) 227-5859; his email address is vijay_jain@dot.ca.gov.

The pre-qualified list includes only those SCMs that comply with the following AASHTO designations:

- M295 - Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for use in Concrete pp. 2 - 3
- M302 - Standard Specification for Ground Granulated Blast-Furnace Slag for use in Concrete and Mortars pp. 4
- M307 - Standard Specification for Silica Fume used in Cementitious Mixtures pp. 5

The information contained herein, shall not to be used for advertising purposes, nor is it an endorsement by Caltrans.

AASHTO M 295 SCMs

Company name	Classification of mineral admixtures	Typical calcium oxide range in mineral admixture, %
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Fly Ash

- | | | | |
|-----|---|---|------------|
| (1) | Boral Materials Technology
45 NE Loop 410
Suite 700
San Antonio, TX 78216 | | |
| | (a) Monticello Fly Ash (Monticello, Texas) | F | 7.1 to 8.0 |
| | (b) Craig Fly Ash (Craig, CO) | F | 5.7 to 9.6 |
| | (c) Irvington Station Fly Ash (Tuscon, AZ) | F | 7.6 to 9.1 |
| | (d) Snowflake Fly Ash (Snowflake, AZ) | F | 4.8 to 7.1 |
| (2) | Headwater Resources, Inc.
10653 S. Riverfront Parkway
South Jordan, UT 84095 | | |
| | (a) Centralia Fly Ash (Centralia, Washington) | F | 7.6 to 8.0 |
| | (b) IPSC/Delta Fly Ash (Delta, Utah) | F | 9.1 to 9.9 |
| | (c) Hunter Fly Ash (Castle Dale, Utah) | F | 7.9 to 9.9 |
| | (d) Navajo Fly Ash | F | 6.5 to 8.0 |
| | (e) Jim Bridger Fly Ash (Rock Spring, Wyoming) | F | 6.2 to 7.5 |
| (3) | Salt River Materials Group
Phoenix Cement Company
8800 East Chaparral Road, Suite 155
Scottsdale, AZ 85250-2618
Tel. No: (480) 850-5757 | | |
| | (a) Cholla Fly Ash (Joseph City, Arizona) | F | 3.1 to 5.0 |
| | (b) Four Corners Fly Ash (Fruitland, New Mexico) | F | 2.4 to 2.8 |
| | (c) Escalante Fly Ash (Prewit, New Mexico) | F | 2.5 to 4.8 |
| | (d) San Juan Fly Ash (San Juan, Waterflow, New Mexico) | F | 5.8 to 7.8 |
| | (d) San Juan Fly Ash (San Juan, Waterflow, New Mexico) | F | 5.8 to 7.8 |
| | (e) Gallup Fly Ash (commingled fly ash made up of
Four Corners Fly Ash and San Juan Fly Ash) | F | 4.1 to 9.4 |
| (4) | Mineral Resources Technologies, LLC
120 Interstate North Parkway East, Suite 440
Atlanta, GA 30339 | | |
| | (a) Coronado Fly Ash (St. John, Arizona) | F | 2.6 to 5.0 |

AASHTO M 295 SCMs

Company name	Classification of mineral admixtures	Typical calcium oxide range in mineral admixture, %
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5) Enx Inc.
9429 148th Street
Edmonton, AB Canada
Tel. No: (780) 454-4199

(a) Genessee Fly Ash

F

4.2 to 5.6

Note: Fly ash suppliers should provide the Calcium Oxide (CaO) content and the alkaline content in their fly ash to the Resident Engineer. There are different requirements for fly ash with CaO 10% maximum and fly ash with CaO 15% maximum. The “total” alkaline content requirement is 5% maximum or the “available” alkali content is 1.5% maximum in fly ash, per Caltrans Standard Special Provisions.

Natural Pozzolans

(1) Western Pozzolan Corp.
1748 Senecio Drive
Larkspur, CO 80118

(a) Lassenite SR

N

2.3

(2) Engelhard Corp.
Pigments & Additives Group
101 Wood Avenue
P.O. Box 770
Iselin, NJ 08830

(a) MetaMax EF
High Reactivity Meta Kaolin

N

<1

(3) Advanced Cement Technologies
435 Martin Street, Suite 2040
Blaine, WA 98231

(a) Power Pozz
High Reactivity Metakaolin

N

<1

(4) GCC of America
130 Rampart Way Suite 200
Denver, CO 80230

(a) Micro Silix

N

2.6

AASHTO M 307 Silica Fume

Company name	Classification of mineral admixtures	Typical calcium oxide range in mineral admixture, %
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Silica Fume

- | | | |
|-----|--|--------------------------|
| (1) | BASF Admixtures, Inc.
23700 Chagrin Boulevard
Cleveland, OH 44122-5554
(216) 839-7500 | Rheomac SF 100 Densified |
| (2) | W.R. Grace & Company
62 Whittenmore Avenue
Cambridge, MA 02140-1692
(617) 498-4555 | Force 10,000 D Densified |
| (3) | The Euclid Chemical Company
19218 Redwood Road
Cleveland, Ohio 44110 | Eucon MSA |
| (4) | Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071 | Sikacrete 950 DP |

AASHTO M 302 Ground Granulated Blast-Furnace Slag

Company name	Product name
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Ground Granulated Blast-Furnace Slag

(1)

(2)

(3)